

AVIATION SPECIFICATIONS 10

BROADCAST REMOTE IDENTIFICATION

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1 Introduction and Applicability

- 1.1 Aviation Specifications 10 – Broadcast Remote Identification (“AS-10”) is issued by the Director-General of Civil Aviation (DGCA) to specify the technical requirements relating to Broadcast Remote Identification (“B-RID”) of unmanned aircraft (“UA”) under Part 2A of the Air Navigation (101 – Unmanned Aircraft Operations) Regulations 2019 (“ANR-101”).
- 1.2 AS-10 applies to a person who operates or causes or permits an individual to operate a registrable unmanned aircraft under regulation 19F of ANR-101.

2 Broadcast Remote Identification Technical Requirements

2.1 Technical Standards and Specifications

- 2.1.1 The broadcasting of remote identification information must be in accordance with the standard known as EN 4709-002 that is adopted by the European Committee for Standardization, and includes any amendment or revision to the standard made from time to time that is so adopted.
- 2.1.2 The remote identification information are to be broadcasted when the UA is in flight¹ in the settings stated below.

CATEGORY	ALLOWABLE SETTINGS
Broadcast Method(s)	• Bluetooth 5 Long Range; or • Wi-Fi NAN; or • Wi-Fi Beacon. Only 1 of the broadcast methods is required.
Broadcast Frequency and Minimum Power	• 2.4 GHz Bluetooth with at least +5 dBm; • 2.4 GHz Wi-Fi with at least +11 dBm; • 5.8 GHz Wi-Fi with at least +4 dBm.
Update and Transmission Rates	• For dynamic messages: at least once every 1 second (i.e. 1 Hz or higher). • For static messages: at least once every 3 seconds (i.e. 1/3 Hz or higher). • For maximum data age: no older than one second for dynamic messages.

¹ The remote identification information can optionally also be transmitted when the UA is on the ground (i.e. from switch-on to switch-off).